

Technical Specifications

System function

Automatic, Discrete, Random Access, Bench-top
STAT sample priority

Throughput: Up to 200 T/H, up to 400 T/H with ISE

Principles: Absorbance photometry, Turbidimetry,
Ion Selective Electrode technology

Methodology: End-point, Fixed-time, Kinetic, optional ISE,
Single/Dual reagent chemistries,
Monochromatic/Bichromatic

Reagent/Sample Handling

Tray: 80 reagent positions and 40 sample
positions in refrigerated (2~12 ℃)
compartment

Reagent volume: 10~250μl, step by 0.5μl

Sample volume: 2~45μl, step by 0.1 μl

Probe: Liquid level detection, vertical collision
protection, inventory checking,
and reagent pre-warming

Probe cleaning: Interior and exterior automatic probe washing
Carry over < 0.05%

Sample dilution: Automatic pre-dilution and post-dilution

Internal bar code reader (optional)

Sample/Reagent barcode reading including Codabar,
ITF (Interleaved Two of Five), code 128, UPC/EAN, Code 93;
Bi-directional LIS interface transmission

Reaction System

Reaction rotor: Rotating tray, 40 reusable cuvettes

Cuvette: Optical length 5mm

Reaction volume: 100~360μl

Temperature: 37 ℃

Fluctuation: ± 0.1 ℃

ISE Module (optional)

Measuring K+, Na+, Cl-

Mixing Unit

Independent mixing bar

Cuvette Washing: Washing station with pre-warmed detergent
and water

Optical System

Light Source: Halogen-tungsten lamp

Wavelength: 8 wavelengths, 340nm, 405nm, 450nm,
510nm, 546nm, 578nm, 630nm, 670nm

Absorption range: 0~4.0 Abs (10mm conversion), resolution
0.0001Abs

Stray Light: 5.6Abs

Control and Calibration

Calibration modes: Linear (one point, two points and
multi-points), Logit-Log 4P, Logit-Log 5P,
Spline, Exponential, Polynomial, and Parabola

Control Rules: X-R, L-J, Westgard multi-rule, Cumulative sum
check, twin plot

Operation Unit

Operation system: Windows 8 and Windows 10

Interface: RS-232

Working Conditions

Power Supply: 200~240V, 50/60Hz, ≤1000VA or 100~130V,
60Hz, ≤1000VA

Dimension: 690 mm (L) ×580 mm (D) ×595 mm (H)

Weight: 79 kg

Water Consumption: ≤ 4 L/H, CLSI type II

Temperature: 15~30 ℃

Humidity: 35%~85%, without condensation

BS-240VET

Clinical Chemistry Analyzer





Flexible loading:

Up to **80** sample positions,

Up to **80** reagent positions.

(40 fixed + 40 interchangeable)

100µl
minimum reaction volume



Intelligent Probe

Liquid level detection

Collision protection

Reagent pre-warming



Upgraded auto-washing system
ensures low carryover and low water
consumption.

